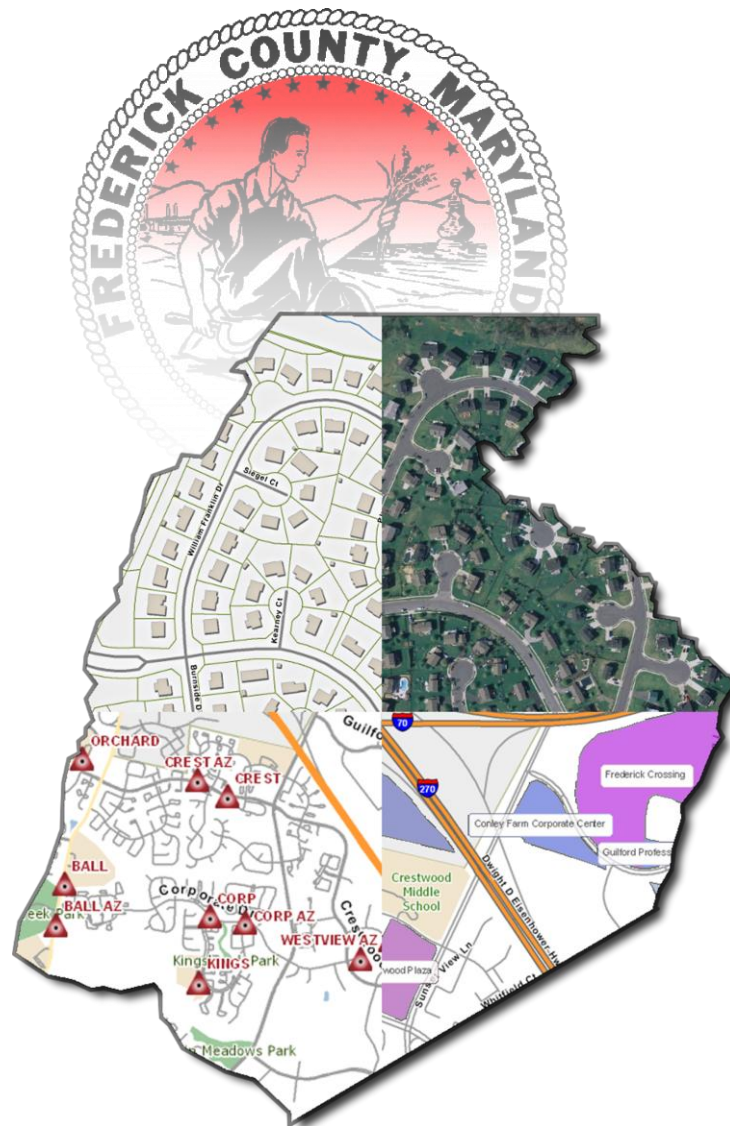


GEOGRAPHIC INFORMATION SYSTEMS STRATEGIC PLAN 2011 - 2015



FREDERICK COUNTY GOVERNMENT, MARYLAND

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1. EXECUTIVE SUMMARY

PURPOSE

This Geographic Information Systems (GIS) strategic plan establishes direction for Frederick County Government to deliver accurate and timely geographical information systems data to support informed decision making by government, businesses and citizens.

This Plan fosters a collaborative GIS environment to:

- Reduce the associated costs of maintaining and funding GIS data and related services.
- Improve efficiencies.
- Eliminate duplication of efforts.
- Expand diverse access to GIS mapping / services for the public and business sectors.

GOALS

MAINTAIN QUALITY GIS DATA AND SERVICES INCREASING GIS DATA ACCURACIES, DEVELOPING TOOLS AND WORKFLOWS, AND ACQUIRING NEW DATA RESOURCES

DEVELOP PARTNERSHIPS AND COLLABORATIONS TO ESTABLISH OPPORTUNITIES FOR REGIONAL COST REDUCTIONS AND DATA SHARING

LEVERAGE GIS PROGRAM EFFICIENCIES TO REDUCE COSTS; BENEFIT GIS STAKEHOLDERS; STREAMLINE WORKFLOWS AND ACHIEVE ENTERPRISE GIS OBJECTIVES

EXPAND ACCESS TO INTERNET MAPPING SERVICES AND CONTENT THROUGH WEB APPLICATIONS AND MOBILE TECHNOLOGIES FOR CITIZENS, BUSINESSES AND GOVERNMENT

2. BACKGROUND

2.1. GIS PROGRAM MISSION STATEMENT

FREDERICK COUNTY GEOGRAPHICAL INFORMATION SYSTEMS PROGRAM PROVIDES COST EFFECTIVE GIS RESOURCES THAT IMPROVE SERVICE DELIVERY TO FREDERICK COUNTY CITIZENS, BUSINESSES AND GOVERNMENT THROUGH LEVERAGED GEOSPATIAL TECHNOLOGIES.

2.2. GIS PROGRAM HISTORY

In 1994 the Frederick County GIS Program began with the acquisition of the GIS application InfoCAD to support survey activities and the digitizing of subdivision plats. As the importance of geospatial data grew, orthoimagery and other base map layers were acquired from the State of Maryland including hydrography, scanned parcel maps and the Maryland PropertyView property tax GIS database.

A 1998 GIS software assessment resulted in the procurement of the Environmental Systems Research Institute (ESRI) suite of GIS applications. The amount of spatial data resources and users increased within the program. Under the guidance of the GIS Steering Committee (representing divisional GIS stakeholders), dedicated funding and staffing supported a \$1.2 million spatial data acquisition, parcel database development project, orthoimagery, and planimetric datasets. An Enterprise GIS Office was established within the Interagency Information Technologies Division to coordinate and manage County-wide GIS initiatives. GIS data was maintained by the Planning, Public Works, and Emergency Services divisions within a decentralized staffing program structure.

In 2006, a GIS needs assessment recommended: expanded online spatial data resources, improved data sharing and coordination, elimination of duplication of effort, and centralized coordination and support. By 2008, the County had implemented recommendations that added online services, increased data layers, added GIS staff in the Interagency Information Technologies (IIT) division and started planning for enterprise GIS consolidation.

By 2012, the Frederick County GIS program continues to enhance services as recommended in the 2006 assessment. The GIS program consolidated in the IIT division in 2011 at a savings of approximately \$124,000 annually; GIS integration continues to expand within county services; GIS Internet mapping and data presence have been added along with improved desktop access to geospatial data and attending technologies and GIS is expanding mobile access.

3. CURRENT STATUS

3.1. ORGANIZATION

The current structure of the Frederick County GIS Program is based on a consolidation of GIS staff within the Interagency Information Technologies Division guided by a GIS Steering Committee.



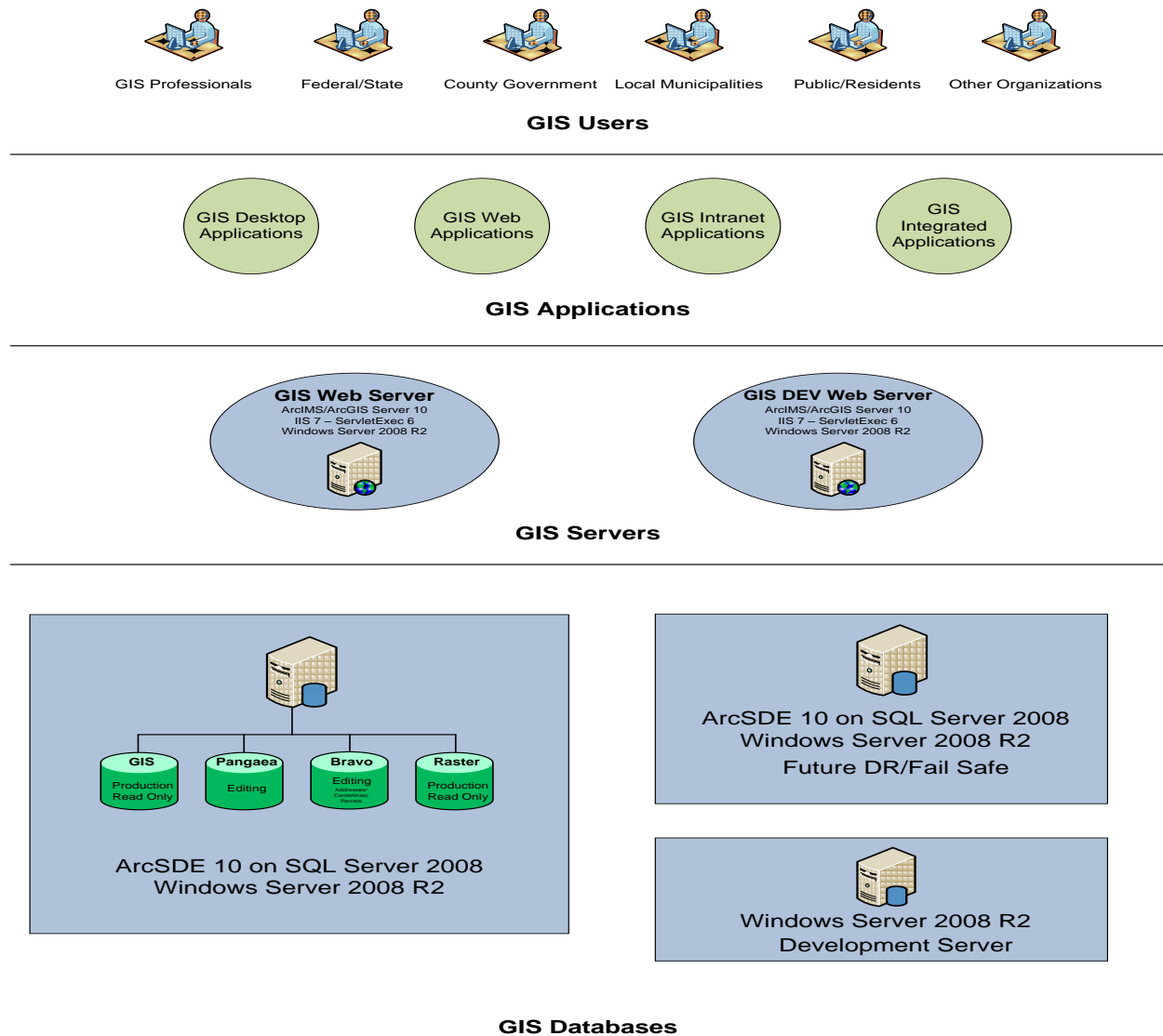
3.2. SYSTEM INFRASTRUCTURE

Frederick County GIS continues to strengthen the enterprise system stability and reliability; upgrading infrastructure components to current software releases, developing and maintaining staff expertise in core Environmental Systems Research Institute (ESRI) application components and furthering proficiency in database management (SQL Server) systems and application development (.NET, Python, Flex, etc.) environments. All county GIS users will have access to the latest GIS software upgrades as they become available.

The system infrastructure is comprised of (1) production database server, (1) data recovery database server, (1) production web server, (1) development web server and (1) development database server. Frederick County's GIS program maintains (1) SQL Server instance and (4) ArcSDE databases for GIS data in the production environment.

Each ArcSDE database is associated with a specific role in the enterprise system. One database is designated for production and is read-only. Another is designated for editing of the core layers (Addresses, Parcels and Centerlines). One database is designated for all other editing (non-core layers) and the remaining database houses all raster imagery data. Each ArcSDE instance has a protected default version, SDE Default, which is the master version. Under the SDE Default version configuration, a business version of the data is created for all subsequent versions. From that version, all editing versions are generated and the SDE administrator reconciles and posts edits from the business version to the SDE Default.

Frederick County MD GIS System Architecture



3.3. DATA HOLDINGS

Frederick County GIS maintains 400 plus diversified spatial data sets. GIS staff produces, maintains supplies, analyzes, and incorporates a multitude of spatial and non-spatial data. To maintain an efficient and standardized enterprise GIS system, the data is maintained within the County's primary GIS ESRI software geo-spatial data formats.

The geospatial data holdings are composed of vector data (addresses, parcels, roadway centerlines, etc.) and image based raster data (full county aerial imagery both standard orthographic and oblique). Frederick County works closely with State and Federal agencies to obtain regular updates of orthographic imagery and with the private industry to obtain oblique image data.

Non-spatial data sets are frequently used as tabular or database formats in conjunction with geospatial data. Through the use of customized and standardized GIS applications, this data supports operations in emergency management, public works, public safety, planning, elections, and many other Frederick County Government business processes.

A partial listing of publicly available categorized geospatial data holdings:

http://www.frederickcountymd.gov/gis/pdf/PublicData_LayerInventory.pdf



Base Data GIS SHAPEFILE INVENTORY

Data Sets: Agricultural Preservation, County wide data, Control, Emergency, Hydrography, Index Grids, Parcels, Points of Interest, Political Features, Recreation, Schools, Transportation, Zipcodes, Zoning

Data Set	Shapefile	Last Update:	Data Creator:	Maintained By:	Description:
Agricultural Preservation	County_Held	9/23/2010	Planning	Planning	County-held Agricultural Preservation Properties
Agricultural Preservation	Critical_Farms	9/23/2010	Planning	Planning	Properties in Critical Farm program
Agricultural Preservation	Farms	8/23/2011	Enterprise GIS	Enterprise GIS	Farm information from Frederick Farm Guide 2006
Agricultural Preservation	FFP	9/23/2010	Planning	Planning	Properties in Federal Farmland Protection Program
Agricultural Preservation	IPP	9/23/2010	Planning	Planning	Properties in the Installment Purchase Program
Agricultural Preservation	ISTEA	9/23/2010	Planning	Planning	Inter-Surface Transportation Enhancement Act Easements
Agricultural Preservation	MALPF_Districts	9/23/2010	Planning	Planning	Maryland Agricultural Land Preservation Districts
Agricultural Preservation	MALPF_Easements	9/23/2010	Planning	Planning	Maryland Agricultural Land Preservation Easements
Agricultural Preservation	MET	9/23/2010	Planning	Planning	Maryland Environmental Protection Program Easements
Agricultural Preservation	Rural_Legacy	9/23/2010	Planning	Planning	Maryland Rural Legacy Program Easements
Comprehensive Plan	Community Facilities	4/8/2010	Planning	Planning	Existing and Proposed Community Facilities
Comprehensive Plan	Community Growth Boundaries	4/8/2010	Planning	Planning	The extent municipalities may develop within 20-30 years
Comprehensive Plan	Comprehensive Plan Designations	4/8/2010	Planning	Planning	Where and what type of development may occur in 20-30yrs
Comprehensive Plan	Highway Plan	4/8/2010	Planning	Planning	Existing and Proposed Roads
Control	Control	4/7/2004	Public Works	Public Works	Survey Control Monuments
Emergency	Fire_Stations	3/3/2009	Enterprise GIS	Enterprise GIS	Fire Station locations
Emergency	Hospitals	8/23/2011	Enterprise GIS	Enterprise GIS	Hospital locations
Emergency	Police_Stations	3/5/2010	Enterprise GIS	Enterprise GIS	Police Station locations
Hydrography	Catchment	10/14/2009	Versar Inc.	Public Works/Planning	DEI delineated drainage areas
Hydrography	Catchment_Clip	3/21/2010	Enterprise GIS	Enterprise GIS	Frederick County Cartographic Version of Catchments
Hydrography	Dams	1/14/2005	MD Dept. of Environment	MD Dept. of Environment	Water impoundment areas (dams)
Hydrography	Feeder Streams	3/1/2008	Versar Inc.	Public Works/Planning	Streams from surrounding counties flowing into County
Hydrography	Rivers_Lakes	4/6/2008	Public Works	Public Works	Polygon surface water features
Hydrography	Streams	9/12/2008	Enterprise GIS	Enterprise GIS	Linear surface water features (streams)
Hydrography	Subwatershed	3/13/2008	Versar Inc.	Public Works/Planning	Catchments dissolved into larger drainage areas
Hydrography	Subwatershed_Clip	3/21/2010	Enterprise GIS	Enterprise GIS	Frederick County Cartographic Version of Subwatersheds
Hydrography	Watershed	3/1/2008	Versar Inc.	Public Works/Planning	Watershed boundaries for NPDES permit
Hydrography	Watershed_Clip	7/9/2008	Enterprise GIS	Enterprise GIS	Frederick County Cartographic Version of Watersheds
Index Grids	Ortho_Grid	1/1/2000	DPW	Enterprise GIS	Grid of Ortho Tiles in 2000 Frederick County Ortho
Index Grids	Ortho_Grid_2005	1/10/2006	VARGIS, LLC	VARGIS, LLC	Grid of Ortho Tiles in 2005 Frederick County Ortho
Index Grids	Ortho_Grid_2007	4/30/2007	Axis GeoSpatial, LLC	Axis GeoSpatial, LLC	Grid of Ortho Tiles in 2007 Frederick County Ortho
Index Grids	Tax_Grid	1/1/2005	Planning	Planning	Tax Map Grid Index
Index Grids	Tax_Grid_Towns	1/1/2005	Planning	Planning	Tax Map Town Grid Index
Index Grids	Tax_Subgrid	1/1/2005	Planning	Planning	Tax Map Subgrid Index
Land Cover	Forest	9/30/2004	Planning & Zoning	Planning & Zoning	Generalized forest areas
Parcels	Parcels_Dist	Every Wed	SOS	Enterprise GIS	Parcel boundaries
Planning & Zoning	PlanningRegions	4/14/2010	Planning & Zoning	Planning & Zoning	Planning region boundaries
Planning & Zoning	Zoning	4/14/2010	Planning & Zoning	Planning & Zoning	Parcel based zoning

3.4.GIS STAKEHOLDERS

The Frederick County GIS stakeholder community includes internal and external governmental agencies, nonprofit groups, businesses and the general public. This stakeholder community has a variety of GIS data, application and service needs. Collaboration with this community provides effective regional GIS resource management and informed decision making.

FREDERICK COUNTY GOVERNMENT	INDEPENDENT AGENCIES	MUNICIPAL GOVERNMENT	STATE/FEDERAL GOVERNMENT	PUBLIC ACCESS
Board of County Commissioners	Board of Education	Brunswick	MD Department of the Environment	Internet Mapping Applications
Animal Control Division	Board of Elections	Burkittsville	MD Department of Planning	Data Downloads
Community Development Division	Department of Social Services	Emmitsburg	MD Emergency Management Agency	GIS-Based Digital & Hardcopy Maps
Division of Citizens Services	Frederick Community College	Frederick City	MD State Highway Administration	
Emergency Management Division	Liquor Commission	Middletown	Federal Emergency Management Agency	
Utilities / Solid Waste Management Division	Sheriff's Office	Mount Airy	Maryland State Geographic Information Committee	
Fire & Rescue Services Division	State's Attorney	Myersville	National Capital Region GIS Committee	
Health Services Division		New Market	Towson University Center for GIS	
Interagency Information Technologies		Rosemont		
Management Services Division		Thurmont		
Parks & Rec Division		Walkersville		
Public Works Division		Woodsboro		
Transit Services Division				
Finance Division				

3.5.PUBLIC ACCESS TO INTERNET MAPPING APPLICATIONS AND GIS DATA

Frederick County GIS Website

The Frederick County GIS Program supports public access to Internet mapping applications, such as, At-A-Glance and “no charge” GIS base data downloads via the Frederick County GIS website: <http://www.frederickcountymd.gov/gis>

Frederick County At-A-Glance Internet Mapping Application

Frederick County’s At–A-Glance mapping application provides users a wealth of current information about Frederick County properties including; real property data, recycling collection schedules, crime statistics, zoning, water and sewer services, nearby schools and libraries, police districts, and recreational parks. Also accessible to map users is an archive of historical aerial imagery of the county ranging from 1952-2009, mapping tools (measure, zoom, annotation, etc.), links to Google Street View, local weather forecasts and many other types of valuable information.

Internet Mapping Applications and Services

<http://www.frederickcountymd.gov/gis/mapServices/home.html>

Internet mapping applications and services have been developed using ArcIMS (Internet Map Server) and ArcGIS server technologies offering a faster and more user-friendly Web mapping public experience.

The following map services are accessible using varied GIS software:

Base Map, Business Parks and Retail Centers, Fire Station Service Areas, Orthophotography, Traffic Counts, Water and Sewer and Zoning.

Downloadable GIS Data

<https://www.frederickcountymd.gov/gisdatazip/>

GIS base data, including Orthophotography and contour-planimetric data, are available for direct public download for use within GIS software.

Reference a detailed list of available data layers within Appendix A.

Printed GIS-Based Maps

<http://www.frederickcountymd.gov/gis/mapPrints/home.html>

GIS data-based maps are available in several document sizes as a free website download in PDF file formats. Maps may also be printed upon request for a printing charge.

Reference a detailed list of available data layers within Appendix B.

4. OBJECTIVES AND GOALS

4.1.MAINTAIN THE HIGH QUALITY OF GIS DATA AND SERVICES

4.1.1. INCREASE ACCURACIES OF GIS DATA LAYERS

Identify GIS data layers that require higher accuracies for application development and stakeholder use and formulate a plan to achieve those accuracies as the continued support and funding of BOCC will provide.

Goals

- Update Water & Sewer Lines and Structures Data (Including Existing and Proposed Service)
- Improve Parcel Data (Provide Increased Parcel Data Accuracy Correction Workflows)
- Improve Address Data (Provide Increased Address Accuracy Through Multiple Data Sources)

4.1.2. DEVELOP TOOLS AND WORKFLOWS TO MEET STAKEHOLDER NEEDS

Improve production of application tools and workflows based on the fulfillment of GIS stakeholder needs for state and federal mandates and the improvement of business processes.

Goals

- Map Sexual Offenders and Crime Information (Conversion to the FLEX Application Increasing Public Usability and Access)
- Migrate PlanBase Application from the ArcReader to ArcExplorer GIS Data Viewer (Provision of Higher Quality Accessibility to Hundreds of CDD Required Data Layers)
- Standardize Metadata Workflow (Spatial Data) (Increase the Usability of Frederick County GIS Data through Spatial Information Documentation)

4.1.3. ACQUIRE AND UPDATE GIS DATA

Acquire new GIS data resources and update existing data holdings through collaborative and available funding opportunities.

Goals

- Update Hydrography GIS Database (Update and Improve the Stream, River and Lake Spatial Database)
- Repair and Densify Survey Control Monument Network (Supporting County Division Operations and the Development and Survey Communities)
- Update Planimetric Data (Supporting Base Map Layer Needs and the Maryland State Mandated NPDES Permit)

4.2.DEVELOP PARTNERSHIPS AND COLLABORATIONS FOR REGIONAL COST REDUCTION AND DATA SHARING

4.2.1. INCREASE REGIONAL PARTNERSHIPS

Identify and pursue local and regional GIS partnerships expanding Frederick County's involvement in collaborative and cost sharing GIS programs and data acquisition (public safety, mutual aid, aerial imagery contracting, etc.).

Goals

- Assists with Municipal Comprehensive Plan (Provide Collaborative GIS Support for Planning Activities)
- Develop EOC / Emergency Use Web Applications (Web-Based Common Operating Picture and Emergency Operations Analysis Tool)
- Partner with NCR GDX (National Capital Region Geospatial Data Exchange)
- Provide GIS Data to Support PSIC (Public Safety Interoperable Communications Grant Program)

4.2.2. OUTREACH TO MUNICIPAL ENTITIES AND OTHER STAKEHOLDERS

Engage municipalities, GIS stakeholders and non-GIS entities, increasing spatial data support and usage. Provide additional outreach, by means of GIS services, training (when applicable) and data usage for internal users.

Goals

- Initiate a Frederick County GIS User Group (Providing Outreach and Support to Internal and External GIS Stakeholders)
- Outreach to the Frederick County Public School System

4.3.LEVERAGE GIS PROGRAM EFFICIENCIES

4.3.1. LEVERAGE GIS CONSOLIDATION FOR INCREASED COST EFFECTIVE SUPPORT OF GIS STAKEHOLDERS

Utilize the recent consolidation of GIS staff to structure GIS support and services focused on the unique needs of Frederick County Government divisions and agencies.

Goals

- Support Transportation Planning GIS (Increased Support for Transportation Planning and Modeling)
- Modify 2005 Impervious Surface Layer Data (Supporting the Mandated NPDES MS4 Permit)
- Support Comprehensive Planning and Zoning (Increased Support for Land Use Plan, Community Facilities Plan and Master Highway Plan Development)
- Develop Emergency Communication First Due Routes in Network Analyst Format (Provide Regional Fire Station Due Orders within a Geospatial Format)

4.3.2. STREAMLINE WORKFLOWS

Evaluate and improve, where possible, existing GIS support and services workflows and produce new processes for increased program efficiencies.

Goals

- Migrate CDD Databases (Streamline Community Development Division Spatial Data Use Workflows)
- Develop GIS Gateway Application (GIS Resource Portal Development for Desktop Users)
- Enhance Roadway Image Viewer (Conversion of Several Versions of this Application to the FLEX Environment)

4.3.3. INCREASE COLLABORATION

Investigate collaborative activities aimed at improving program efficiencies through cost savings and staff resourcing and training with the goal of improved support for GIS data consumers.

Goals

- Incorporate TransIT Bus Stops and Routes to At-A-Glance (Addition of Bus Stops and Route Information to Mapping Service)
- Enhance Extranet: Road Closure Application (Provide Outreach to Internal Users and Develop Additional Security Refinements to Broaden Usability)

4.4.EXPAND ACCESS TO INTERNET MAPPING SERVICES AND CONTENT

4.4.1. INCREASE PUBLIC ACCESS AND USABILITY OF WEB MAPPING SERVICES

Improve the user experience of current Web mapping applications through increased mapping features and content for the general public.

Goals

- Enhance Frederick County Internet Map Service (Convert this Public Map Service to the FLEX Application Environment Providing Enhanced Usability)
- Create Community Development At-A-Glance (Development of a Community Development Division Themed At-A-Glance Map Service)

4.4.2. DEVELOP BUSINESS-ORIENTED WEB APPLICATIONS

Design and develop additional commerce content Web applications in support of Frederick County business development activities.

Goals

- Integrate OED Web Application Into At-A-Glance Adobe Flex (Conversion of the Office of Economic Development Map Service to the FLEX Application Environment Providing Increased Business Community GIS Data Access)

4.4.3. DEVELOP MOBILE APPLICATIONS

Research the feasibility and deployment of mobile applications for increased public access to Frederick County's GIS resources in keeping with mobile computing trends.

Goals

- Prepare Existing Map Applications for Mobile Device Use (Adjust Current Mapping Applications for Future Mobile Device Access and Usability)

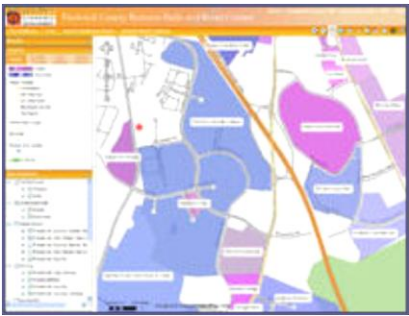
APPENDIX A: SELECTED LIST OF DOWNLOADABLE GIS BASE DATA

Data Download Website: <https://www.frederickcountymd.gov/gisdatazip/>

- Agricultural Preservation
- Comprehensive Plan
- Control
- Emergency
- Hydrography
- Index Grids
- Land Cover
- Parcels
- Planning and Zoning
- Points of Interest
- Political Features
- Recreation
- Schools
- Transportation
- Water and Sewer
- Zip Codes

APPENDIX B: SELECTED PUBLICLY AVAILABLE GIS-BASED PRINTED MAPS

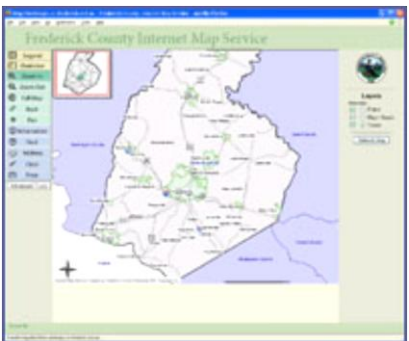
MAP TITLE	PDF DOCUMENT SIZE	COST
Agricultural Preservation Areas	(8.5 x 11) ; (34 x 44)	\$1; \$20
Base Map	(8.5 x 11) ; (34 x 44)	\$1; \$20
Bikeways and Trails Plan	(8.5 x 11) ; (34 x 44)	\$1; \$20
Census Tracts of 2000	(8.5 x 11) ; (34 x 44)	\$1; \$20
Comprehensive Land Use Plan	(8.5 x 11) ; (34 x 44)	\$1; \$20
Comprehensive Land Use Plan with Tax Grid	(8.5 x 11) ; (34 x 44)	\$1; \$20
General Plan	(8.5 x 11) ; (34 x 44)	\$1; \$20
Historic Properties	(8.5 x 11) ; (34 x 44)	\$1; \$20
Landform Map	(8.5 x 11) ; (34 x 44)	\$1; \$20
Legislative Sub-districts, Districts, Precincts and Polling Places	(8.5 x 11) ; (34 x 44)	\$1; \$20
Parks and Recreation	(8.5 x 11) ; (34 x 44)	\$1; \$20
Planning Regions	(8.5 x 11) ; (34 x 44)	\$1; \$20
Planning Regions with Tax Map Grid	(8.5 x 11) ; (34 x 44)	\$1; \$20
Priority Funding Areas	(8.5 x 11) ; (34 x 44)	\$1; \$20
Recycle Cart Pick-up Dates	(8.5 x 11) ; (34 x 44)	\$1; \$20
Sewer Service Areas	(8.5 x 11) ; (34 x 44)	\$1; \$20
Water Service Areas	(8.5 x 11) ; (34 x 44)	\$1; \$20
Watersheds	(8.5 x 11) ; (34 x 44)	\$1; \$20
Wellhead Protection Areas	(8.5 x 11) ; (34 x 44)	\$1; \$20
Zip Codes	(8.5 x 11) ; (34 x 44)	\$1; \$20
Zoning	(8.5 x 11) ; (34 x 44)	\$1; \$20
Zoning with Tax Map Grid	(8.5 x 11) ; (34 x 44)	\$1; \$20



FREDERICK COUNTY OFFICE OF ECONOMIC DEVELOPMENT BUSINESS PARKS AND RETAIL CENTERS MAPPING APPLICATION (ARCGIS SERVER, WEB ADF)

http://www.frederickcountymd.gov/gis/mapServices/agreement_OED.html

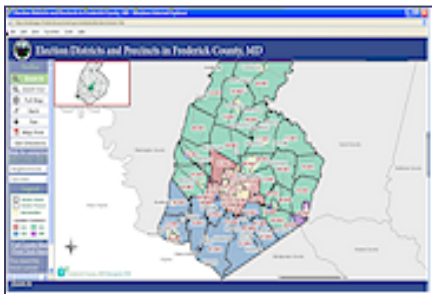
Users can search Business Park and Retail Center information in Frederick County including property management contacts, square footage, zoning and other vital commerce information.



FREDERICK COUNTY INTERNET MAP SERVICE (ARCIMS)

http://www.frederickcountymd.gov/gis/mapServices/agreement_basic.html

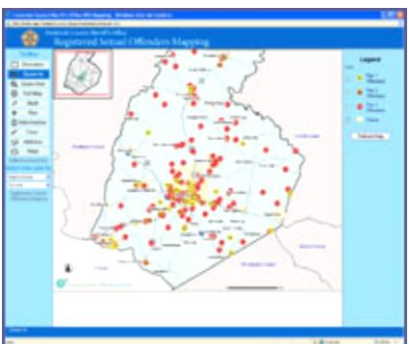
The base map layers in this application include; municipal boundaries, police stations, schools, libraries, rivers and lakes, election districts, roads, orthophotography imagery taken in year 2007, GIS layer reference grids and more.



ELECTION DISTRICTS AND PRECINCTS IN FREDERICK COUNTY, MD (ARCIMS)

http://www.frederickcountymd.gov/gis/mapServices/agreement_election.html

Users can find their election precinct and download a precinct map using this service.



FREDERICK COUNTY SHERIFF'S OFFICE SEXUAL OFFENDERS MAP SERVICE (ARCIMS)

http://www.frederickcountymd.gov/gis/mapServices/agreement_rs_o.html

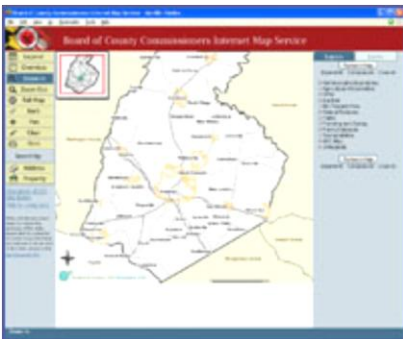
This map service contains information on Registered Sexual Offenders provided to the Sheriff's Office by the registrant and is based upon the last notification received.



FREDERICK COUNTY SHERIFF'S OFFICE CRIME MAPPING

http://www.frederickcountymd.gov/gis/mapServices/agreement_crimemap.html

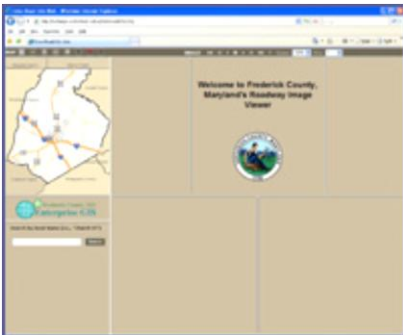
The map layers include selected offense reports taken by the Frederick County Sheriff's Office, the Brunswick Police Department and the Thurmont Police Department. It does NOT include any reports taken by the Frederick City Police Department or the Maryland State Police.



BOARD OF COUNTY COMMISSIONERS MAP SERVICE (ARCIMS, INTERNAL USE)

http://www.frederickcountymd.gov/gis/mapServices/agreement_boardcc.html

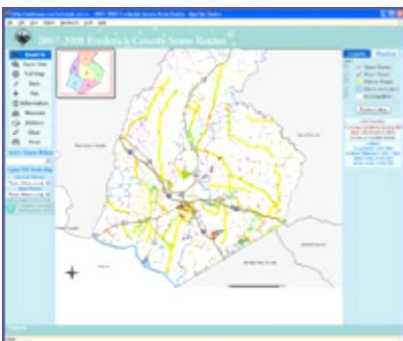
This map service provides GIS base layers, tax maps and ortho imagery as an internal application for the Frederick County Board of County Commissioners.



FREDERICK COUNTY ROADWAY IMAGE VIEWER (ARCIMS, INTERNAL USE)

http://www.frederickcountymd.gov/gis/mapServices/agreement_roadwayimagery.html

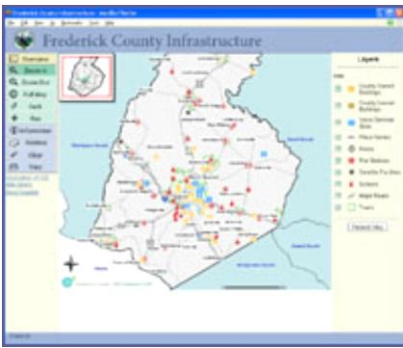
This is an internal image viewer allowing Frederick County staff to "drive" county roadways from their desktop. Also used by the Sheriff's Office and Board of Education, this application provides a safe means of roadway setting investigation and a cost savings in fuel and staff hours.



FREDERICK COUNTY SNOW ROUTES MAPPING APPLICATION (ARCIMS, INTERNAL USE)

http://www.frederickcountymd.gov/gis/mapServices/agreement_snowroutes.html

Countywide snow routes, priority roads, satellite facilities and school bus turnaround location layers are available within this application as well as accessible PDF maps for planning and operations.



FREDERICK COUNTY INFRASTRUCTURE (ARCIMS, INTERNAL USE)

http://www.frederickcountymd.gov/gis/mapServices/agreement_infrastructure.html

County owned buildings, County leased buildings, and Voice Services Sites are available in this mapping application.



WELLHEAD PROTECTION AREA IN FREDERICK COUNTY, MD (ARCIMS, INTERNAL USE)

http://www.frederickcountymd.gov/gis/mapServices/agreement_wellhead.html

Wellhead Protection sites inside and outside municipalities are shown. Users can search the map by address or property information.

APPENDIX D: SELECTED LIST OF CURRENT GIS PROJECTS IN PROGRESS

GIS PROJECT	DESCRIPTION
Municipal Comprehensive Plan	Provide collaborative GIS support for planning activities.
NCR GDx (National Capital Region Geospatial Data Exchange)	Regional data exchange partnership.
Transportation Planning GIS	Increased support for transportation planning.
Modify 2005 Impervious Surface Layer Data	Support for the mandated NPDES MS4 Permit.
Comprehensive Planning and Zoning	Increased support for the Land Use Plan, Community Facilities Plan and Master Highway Plan.
Emergency Communication First Due Routes Developed in Network Analyst Format	Provide regional fire station due orders within a geospatial format.
GIS Gateway Application	GIS resource portal development for desktop users.
TransIT Bus Stops and Routes to At-A-Glance	Addition of bus stops and route information to the mapping service.
Extranet: Road Closure Application	Provide outreach to internal users and develop additional security refinements to broaden usability.
Frederick County Internet Map Service	Convert this public map service to the FLEX application development environment providing enhanced usability.
Agile Assets Pavement Management Application GIS Support	GIS support of pavement management application under implementation by the Division of Public Works.
Analysis in Support of Cost Analysis for Draft NPDES MS4 Permit	GIS support of cost analysis for draft NPDES MS4 Permit.
Sign Inventory Application (Roadway Assets Management)	GIS support for roadway signage inventory and maintenance.
Emergency Notification System (Everbridge)	Continued maintenance support and quarterly data updates.
Parcel Data Improvement	Identify correct and create parcels improvement work-flow.
Address Data Improvement	DFRS address verification in the field.